CW#100: Arc length & Sector Area

Geometry  
Due: Friday, March 18th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

FAILURE TO WRITE IN COMPELTE SENTENCES OR SHOW ALL WORK WILL RESULT IN LASALLE

|  |  |  |
| --- | --- | --- |
| Objective | YWBAT find the arc length of a sector. | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-19%20at%202.14.38%20PM a) Identify the radius    b) Find the circumference of the circle     Suppose you want to find the arc length shown in bold.   c). What is an example of an answer that is too small? Explain why.      b) What is an example of an answer that is too big? Explain why. | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-19%20at%202.17.46%20PM a) Identify the radius    b) Find the circumference of the circle     Suppose you want to find the arc length shown in bold.   c). What is an example of an answer that is too small? Explain why.   b) What is an example of an answer that is too big? Explain why. |
| Directions: Find the arc length of the arc measure shown. | | |
| 1. Find the measure of arc AB.   ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.42.52%20PM | | 1. Find the measure of the arc shown below.  ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.46.02%20PM |
| 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.46.05%20PM | | 1. Find the measure of arc EF.  ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.42.55%20PM |
| 1. Find the measure of arc GH.  ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.42.58%20PM | | 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.46.08%20PM |
| 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.49.29%20PM | | 1. Find the measure of the arc shown below. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.49.32%20PM |

|  |  |  |
| --- | --- | --- |
| Objective | YWBAT find the area of a sector | |
| Directions: Find the area of each sector. | | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.17%20PM     a) Identify the radius    b) Find the area of the circle.   Suppose you want to find the arc length shown in bold.   c). What is an example of an answer that is too small? Explain why.    d) What is an example of an answer that is too big? Explain why. | | ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.12%20PM12.    a) Identify the radius    b) Find the area of the circle.  Suppose you want to find the arc length shown in bold.   c). What is an example of an answer that is too small? Explain why.      d) What is an example of an answer that is too big? Explain why. |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.09%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.07%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.03%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.52.00%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.51.57%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.51.54%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.51.51%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.51.48%20PM |

|  |  |  |
| --- | --- | --- |
| Objective | YWBAT find the perimeter of a sector. | |
| Directions: Find the Perimeter of each sector | | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.32%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.29%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.26%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.24%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.18%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.16%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.12%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.09%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.06%20PM | | 1. ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%201.58.00%20PM |



If you’ve reached this point during class, raise your hand and let a teacher know.

APPLICATION PROBLEMS Finished early? Try these application problems!   
THIS IS A CLASSROOM COPY, COMPLETE ALL PROBLEMS IN YOUR NOTEBOOK

|  |  |
| --- | --- |
| 1. INSCRIBED SQUARE A square with side length 6 units is inscribed in a circle. Draw a sketch to represent the problem. Find the circumference of the circle. | 1. PIZZA! PIZZA! You stop for lunch at a local pizza shop where pizza is cut into 8 slices. Would your hunger be satisfied with one slice from a 16-in pizza or two slices from a 12-inch pizza (disregarding thickness)? Explain your answer using mathematical evidence. |
| 1. A Cathedral window is built in the shape of a semicircle. If the window is to contain three stained glass sections of equal size, what is the area of each stained glass section?   ../../../../../Desktop/Screen%20Shot%202016-03-13%20at%202.41.39%20PM | 1. TREES A group of students want to find the diameter of a trunk of a young sequoia tree. The students wrap a rope around the tree trunk, then measure the length of rope needed to wrap one time around the trunk. This length is 21 feet. *Explain* how they can use this length to estimate the diameter of the tree trunk. |
| 1. SHORT RESPONSE It takes about ¼ cup of dough to make a tortilla with a 6-inch diameter. How much dough does it take to make a tortilla with a 12-inch diameter? *Explain* your reasoning. | 1. WRITING Suppose you double the angle measure given for the sector of a circle. Will the area of the sector also be doubled? *Explain* in at least 1 sentence. |